## Wei Chen

## List of Publications by Year in descending order

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61857 13727 24,232 136 43 129 citations h-index g-index papers 151 151 151 45901 citing authors docs citations times ranked all docs

#	Article	IF	CITATIONS
1	A global reference for human genetic variation. Nature, 2015, 526, 68-74.	13.7	13,998
2	A genome-wide association study of global gene expression. Nature Genetics, 2007, 39, 1202-1207.	9.4	882
3	Seven new loci associated with age-related macular degeneration. Nature Genetics, 2013, 45, 433-439.	9.4	687
4	Demographic history and rare allele sharing among human populations. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11983-11988.	3.3	589
5	Variation in genome-wide mutation rates within and between human families. Nature Genetics, 2011, 43, 712-714.	9.4	525
6	Genetic variants near <i>TIMP3</i> and high-density lipoprotein–associated loci influence susceptibility to age-related macular degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7401-7406.	3.3	475
7	Proliferating SPP1/MERTK-expressing macrophages in idiopathic pulmonary fibrosis. European Respiratory Journal, 2019, 54, 1802441.	3.1	400
8	A variant of mitochondrial protein LOC387715/ARMS2, not HTRA1, is strongly associated with age-related macular degeneration. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16227-16232.	3.3	398
9	Control for Population Structure and Relatedness for Binary Traits in Genetic Association Studies via Logistic Mixed Models. American Journal of Human Genetics, 2016, 98, 653-666.	2.6	347
10	The 1000 Genomes Project: data management and community access. Nature Methods, 2012, 9, 459-462.	9.0	308
11	Adaptive plasticity of IL-10+ and IL-35+ Treg cells cooperatively promotes tumor T cell exhaustion. Nature Immunology, 2019, 20, 724-735.	7.0	297
12	Transcriptome analysis and molecular signature of human retinal pigment epithelium. Human Molecular Genetics, 2010, 19, 2468-2486.	1.4	249
13	E2-2 Protein and Fuchs's Corneal Dystrophy. New England Journal of Medicine, 2010, 363, 1016-1024.	13.9	247
14	SFRP2/DPP4 and FMO1/LSP1 Define Major Fibroblast Populations in Human Skin. Journal of Investigative Dermatology, 2018, 138, 802-810.	0.3	236
15	Treg Cells Promote the SREBP1-Dependent Metabolic Fitness of Tumor-Promoting Macrophages via Repression of CD8+ T Cell-Derived Interferon-Î <sup>3</sup> . Immunity, 2019, 51, 381-397.e6.	6.6	186
16	The functional spectrum of low-frequency coding variation. Genome Biology, 2011, 12, R84.	13.9	173
17	Gene Expression in Skin and Lymphoblastoid Cells: Refined Statistical Method Reveals Extensive Overlap in cis-eQTL Signals. American Journal of Human Genetics, 2010, 87, 779-789.	2.6	169
18	Genetic susceptibility to age-related macular degeneration: a paradigm for dissecting complex disease traits. Human Molecular Genetics, 2007, 16, R174-R182.	1.4	168

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19	DNA methylation in nasal epithelium, atopy, and atopic asthma in children: a genome-wide study. Lancet Respiratory Medicine,the, 2019, 7, 336-346.	5.2	147
20	Loci influencing blood pressure identified using a cardiovascular gene-centric array. Human Molecular Genetics, 2013, 22, 1663-1678.	1.4	141
21	Evidence of association of <i> APOE </i> with age-related macular degeneration - a pooled analysis of 15 studies. Human Mutation, 2011, 32, 1407-1416.	1.1	130
22	IL-17 Receptor Signaling in the Lung Epithelium Is Required for Mucosal Chemokine Gradients and Pulmonary Host Defense against K.Apneumoniae. Cell Host and Microbe, 2016, 20, 596-605.	5.1	115
23	The Influence of Age and Sex on Ocular Surface Microbiota in Healthy Adults. , 2017, 58, 6030.		107
24	Myofibroblast transcriptome indicates SFRP2hi fibroblast progenitors in systemic sclerosis skin. Nature Communications, 2021, 12, 4384.	5.8	101
25	Stress and Bronchodilator Response in Children with Asthma. American Journal of Respiratory and Critical Care Medicine, 2015, 192, 47-56.	2.5	99
26	<i>ADCYAP1R1</i> and Asthma in Puerto Rican Children. American Journal of Respiratory and Critical Care Medicine, 2013, 187, 584-588.	2.5	97
27	Genome-wide association study and meta-analysis of intraocular pressure. Human Genetics, 2014, 133, 41-57.	1.8	93
28	Complement Factor D in Age-Related Macular Degeneration. , 2011, 52, 8828.		92
28	Complement Factor D in Age-Related Macular Degeneration. , 2011, 52, 8828.  PIRs mediate innate myeloid cell memory to nonself MHC molecules. Science, 2020, 368, 1122-1127.	6.0	92
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29	PIRs mediate innate myeloid cell memory to nonself MHC molecules. Science, 2020, 368, 1122-1127.  A Bayesian framework for <i>de novo</i>		92
30	PIRs mediate innate myeloid cell memory to nonself MHC molecules. Science, 2020, 368, 1122-1127.  A Bayesian framework for <i>de novo</i> mutation calling in parents-offspring trios. Bioinformatics, 2015, 31, 1375-1381.  Variations in Apolipoprotein E Frequency With Age in a Pooled Analysis of a Large Group of Older	1.8	92 87
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29 30 31 32	PIRs mediate innate myeloid cell memory to nonself MHC molecules. Science, 2020, 368, 1122-1127.  A Bayesian framework for <i>de novo</i> mutation calling in parents-offspring trios. Bioinformatics, 2015, 31, 1375-1381.  Variations in Apolipoprotein E Frequency With Age in a Pooled Analysis of a Large Group of Older People. American Journal of Epidemiology, 2011, 173, 1357-1364.  AIM2 Inflammasome Is Critical for Influenza-Induced Lung Injury and Mortality. Journal of Immunology, 2017, 198, 4383-4393.  Deep-learning-based prediction of late age-related macular degeneration progression. Nature Machine	1.8 1.6 0.4	92 87 85
29 30 31 32	PIRs mediate innate myeloid cell memory to nonself MHC molecules. Science, 2020, 368, 1122-1127.  A Bayesian framework for <i>de novo</i> mutation calling in parents-offspring trios. Bioinformatics, 2015, 31, 1375-1381.  Variations in Apolipoprotein E Frequency With Age in a Pooled Analysis of a Large Group of Older People. American Journal of Epidemiology, 2011, 173, 1357-1364.  AlM2 Inflammasome Is Critical for Influenza-Induced Lung Injury and Mortality. Journal of Immunology, 2017, 198, 4383-4393.  Deep-learning-based prediction of late age-related macular degeneration progression. Nature Machine Intelligence, 2020, 2, 141-150.  A Likelihood-Based Framework for Variant Calling and De Novo Mutation Detection in Families. PLoS	1.8 1.6 0.4	92 87 85 85

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37	Genome-wide analysis of disease progression in age-related macular degeneration. Human Molecular Genetics, 2018, 27, 929-940.	1.4	67
38	EZH2 and ALDH-1 mark breast epithelium at risk for breast cancer development. Modern Pathology, 2011, 24, 786-793.	2.9	66
39	FastGGM: An Efficient Algorithm for the Inference of Gaussian Graphical Model in Biological Networks. PLoS Computational Biology, 2016, 12, e1004755.	1.5	63
40	A Bayesian mixture model for clustering droplet-based single-cell transcriptomic data from population studies. Nature Communications, 2019, 10, 1649.	5.8	56
41	Nasal DNA methylation profiling of asthma and rhinitis. Journal of Allergy and Clinical Immunology, 2020, 145, 1655-1663.	1.5	56
42	Conjunctival Microbiome Changes Associated With Soft Contact Lens and Orthokeratology Lens Wearing., 2017, 58, 128.		55
43	A novel whole blood gene expression signature for asthma, dermatitis, and rhinitis multimorbidity in children and adolescents. Allergy: European Journal of Allergy and Clinical Immunology, 2020, 75, 3248-3260.	2.7	55
44	An epigenome-wide association study of total serum IgE in Hispanic children. Journal of Allergy and Clinical Immunology, 2017, 140, 571-577.	1.5	53
45	A meta-analysis of genome-wide association studies of asthma in PuertoÂRicans. European Respiratory Journal, 2017, 49, 1601505.	3.1	51
46	Oncological outcome of T1 rectal cancer undergoing standard resection and local excision. Colorectal Disease, 2011, 13, e14-e19.	0.7	50
47	BREM-SC: a bayesian random effects mixture model for joint clustering single cell multi-omics data. Nucleic Acids Research, 2020, 48, 5814-5824.	6.5	50
48	A 32 kb Critical Region Excluding Y402H in CFH Mediates Risk for Age-Related Macular Degeneration. PLoS ONE, 2011, 6, e25598.	1.1	46
49	Genotype calling and haplotyping in parent-offspring trios. Genome Research, 2013, 23, 142-151.	2.4	46
50	Bivariate Analysis of Age-Related Macular Degeneration Progression Using Genetic Risk Scores. Genetics, 2017, 206, 119-133.	1.2	46
51	Association between CFH Y402H Polymorphism and Age Related Macular Degeneration in North Indian Cohort. PLoS ONE, 2013, 8, e70193.	1.1	42
52	A Genome-Wide Association Study of Chronic Obstructive Pulmonary Disease in Hispanics. Annals of the American Thoracic Society, 2015, 12, 340-348.	1.5	41
53	Age-related macular degeneration-associated variants at chromosome 10q26 do not significantly alter ARMS2 and HTRA1 transcript levels in the human retina. Molecular Vision, 2010, 16, 1317-23.	1.1	40
54	Single cell RNA sequencing identifies an early monocyte gene signature in acute respiratory distress syndrome. JCI Insight, 2020, 5, .	2.3	39

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55	CXXC finger protein $1$ is critical for T-cell intrathymic development through regulating H3K4 trimethylation. Nature Communications, 2016, 7, 11687.	5.8	38
56	Cell-Deposited Matrix Improves Retinal Pigment Epithelium Survival on Aged Submacular Human Bruch's Membrane., 2011, 52, 1345.		37
57	A Genome-Wide Association Study in Hispanics/Latinos Identifies Novel Signals for Lung Function. The Hispanic Community Health Study/Study of Latinos. American Journal of Respiratory and Critical Care Medicine, 2018, 198, 208-219.	2.5	37
58	GMM-Demux: sample demultiplexing, multiplet detection, experiment planning, and novel cell-type verification in single cell sequencing. Genome Biology, 2020, 21, 188.	3.8	37
59	SILGGM: An extensive R package for efficient statistical inference in large-scale gene networks. PLoS Computational Biology, 2018, 14, e1006369.	1.5	33
60	High-dimensional profiling clusters asthma severity by lymphoid and non-lymphoid status. Cell Reports, 2021, 35, 108974.	2.9	32
61	Deficiency in AIM2 induces inflammation and adipogenesis in white adipose tissue leading to obesity and insulin resistance. Diabetologia, 2019, 62, 2325-2339.	2.9	31
62	Serum Cadmium and Lead, Current Wheeze, and Lung Function in a Nationwide Study of Adults in the United States. Journal of Allergy and Clinical Immunology: in Practice, 2019, 7, 2653-2660.e3.	2.0	29
63	Geographic Difference Shaped Human Ocular Surface Metagenome of Young Han Chinese From Beijing, Wenzhou, and Guangzhou Cities. , 2020, 61, 47.		29
64	A road map from single-cell transcriptome to patient classification for the immune response to trauma. JCl Insight, $2021, 6, .$	2.3	29
65	Expression Quantitative Trait Methylation Analysis Reveals Methylomic Associations With Gene Expression in Childhood Asthma. Chest, 2020, 158, 1841-1856.	0.4	28
66	SNP@Evolution: a hierarchical database of positive selection on the human genome. BMC Evolutionary Biology, 2009, 9, 221.	3.2	26
67	Prognostic analysis for carcinoid tumours of the rectum: a single institutional analysis of 106 patients. Colorectal Disease, 2011, 13, 150-153.	0.7	26
68	A Multiomics Approach to Identify Genes Associated with Childhood Asthma Risk and Morbidity. American Journal of Respiratory Cell and Molecular Biology, 2017, 57, 439-447.	1.4	26
69	Genomeâ€wide association studyâ€based deep learning for survival prediction. Statistics in Medicine, 2020, 39, 4605-4620.	0.8	26
70	Glycated Hemoglobin A1c, Lung Function, and Hospitalizations Among Adults with Asthma. Journal of Allergy and Clinical Immunology: in Practice, 2020, 8, 3409-3415.e1.	2.0	26
71	Gene Level Meta-Analysis of Quantitative Traits by Functional Linear Models. Genetics, 2015, 200, 1089-1104.	1.2	25
72	Genome-wide interaction study of dust mite allergen on lung function in children with asthma. Journal of Allergy and Clinical Immunology, 2017, 140, 996-1003.e7.	1.5	25

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73	Long-Term Outcome of Early-Stage Rectal Cancer Undergoing Standard Resection and Local Excision. Clinical Colorectal Cancer, 2011, 10, 37-41.	1.0	23
74	Native American Ancestry, Lung Function, and COPD in Costa Ricans. Chest, 2014, 145, 704-710.	0.4	23
75	Transcriptomic Responses to Ivacaftor and Prediction of Ivacaftor Clinical Responsiveness. American Journal of Respiratory Cell and Molecular Biology, 2019, 61, 643-652.	1.4	23
76	A genome-wide association study of asthma hospitalizations in adults. Journal of Allergy and Clinical Immunology, 2021, 147, 933-940.	1.5	23
77	Exposure to violence, chronic stress, nasal DNA methylation, and atopic asthma in children. Pediatric Pulmonology, 2021, 56, 1896-1905.	1.0	22
78	Antiinflammatory effects of bromodomain and extraterminal domain inhibition in cystic fibrosis lung inflammation. JCl Insight, 2016, $1$ , .	2.3	21
79	SNPs identified by GWAS affect asthma risk through DNA methylation and expression of <i>cis</i> -genes in airway epithelium. European Respiratory Journal, 2020, 55, 1902079.	3.1	21
80	Variants in oxidative stress-related genes affect the chemosensitivity through Nrf2-mediated signaling pathway in biliary tract cancer. EBioMedicine, 2019, 48, 143-160.	2.7	20
81	Transcriptomics of atopy and atopic asthma in white blood cells from children and adolescents. European Respiratory Journal, 2019, 53, 1900102.	3.1	20
82	DISSCO: direct imputation of summary statistics allowing covariates. Bioinformatics, 2015, 31, 2434-2442.	1.8	18
83	Meta-analysis of Complex Diseases at Gene Level with Generalized Functional Linear Models. Genetics, 2016, 202, 457-470.	1.2	18
84	A Genome-Wide Association Study of Post-bronchodilator Lung Function in Children with Asthma. American Journal of Respiratory and Critical Care Medicine, 2015, 192, 634-637.	2.5	16
85	Statistics for Xâ€chromosome associations. Genetic Epidemiology, 2018, 42, 539-550.	0.6	16
86	Transcriptome-wide and differential expression network analyses of childhood asthma in nasal epithelium. Journal of Allergy and Clinical Immunology, 2020, 146, 671-675.	1.5	16
87	Single Nucleotide Polymorphism (SNP) Detection and Genotype Calling from Massively Parallel Sequencing (MPS) Data. Statistics in Biosciences, 2013, 5, 3-25.	0.6	15
88	Bayesian integrative model for multi-omics data with missingness. Bioinformatics, 2018, 34, 3801-3808.	1.8	15
89	Sleep Duration, Current Asthma, and Lung Function in a Nationwide Study of U.S. Adults. American Journal of Respiratory and Critical Care Medicine, 2019, 200, 926-929.	2.5	15
90	A genome-wide association study of severe asthma exacerbations in Latino children and adolescents. European Respiratory Journal, 2021, 57, 2002693.	3.1	15

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91	Integration of genetic signature and TNM staging system for predicting the relapse of locally advanced colorectal cancer. International Journal of Colorectal Disease, 2010, 25, 1277-1285.	1.0	14
92	A haplotype-based framework for group-wise transmission/disequilibrium tests for rare variant association analysis. Bioinformatics, 2015, 31, 1452-1459.	1.8	14
93	Associating Multivariate Quantitative Phenotypes with Genetic Variants in Family Samples with a Novel Kernel Machine Regression Method. Genetics, 2015, 201, 1329-1339.	1.2	14
94	Pancreatic gene expression during recovery after pancreatitis reveals unique transcriptome profiles. Scientific Reports, 2018, 8, 1406.	1.6	14
95	Copula-based score test for bivariate time-to-event data, with application to a genetic study of AMD progression. Lifetime Data Analysis, 2019, 25, 546-568.	0.4	14
96	Genome-Wide Association Studies-Based Machine Learning for Prediction of Age-Related Macular Degeneration Risk. Translational Vision Science and Technology, 2021, 10, 29.	1.1	14
97	Gene-Based Association Analysis for Censored Traits Via Fixed Effect Functional Regressions. Genetic Epidemiology, 2016, 40, 133-143.	0.6	12
98	The impact of genotype calling errors on family-based studies. Scientific Reports, 2016, 6, 28323.	1.6	12
99	RNA-seq in Pulmonary Medicine: How Much Is Enough?. American Journal of Respiratory and Critical Care Medicine, 2015, 192, 389-391.	2.5	11
100	Imputation of missing covariate values in epigenome-wide analysis of DNA methylation data. Epigenetics, 2016, 11, 132-139.	1.3	10
101	Artificial-cell-type aware cell-type classification in CITE-seq. Bioinformatics, 2020, 36, i542-i550.	1.8	10
102	A genome-wide study of DNA methylation in white blood cells and asthma in Latino children and youth. Epigenetics, 2021, 16, 577-585.	1.3	10
103	Expression Quantitative Trait Loci (eQTL) Mapping in Puerto Rican Children. PLoS ONE, 2015, 10, e0122464.	1.1	10
104	Using Current Data to Define New Approach in Age Related Macular Degeneration: Need to Accelerate Translational Research. Current Genomics, 2014, 15, 266-277.	0.7	10
105	Robust and accurate estimation of cellular fraction from tissue omics data via ensemble deconvolution. Bioinformatics, 2022, 38, 3004-3010.	1.8	10
106	Rare-Variant Kernel Machine Test for Longitudinal Data from Population and Family Samples. Human Heredity, 2015, 80, 126-138.	0.4	9
107	KMgene: a unified R package for gene-based association analysis for complex traits. Bioinformatics, 2018, 34, 2144-2146.	1.8	9
108	The Genetic Variant on Chromosome 10p14 Is Associated with Risk of Colorectal Cancer: Results from a Case-Control Study and a Meta-Analysis. PLoS ONE, 2013, 8, e64310.	1.1	9

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109	GWAS GUI: graphical browser for the results of whole-genome association studies with high-dimensional phenotypes. Bioinformatics, 2009, 25, 284-285.	1.8	8
110	A computational method for genotype calling in family-based sequencing data. BMC Bioinformatics, 2016, 17, 37.	1.2	8
111	Association of <i>IGFN1</i> variant with polypoidal choroidal vasculopathy. Journal of Gene Medicine, 2018, 20, e3007.	1.4	8
112	Expression patterns of small numbers of transcripts from functionally-related pathways predict survival in multiple cancers. BMC Cancer, 2019, 19, 686.	1.1	8
113	Child maltreatment, anxiety and depression, and asthma among British adults in the UK Biobank. European Respiratory Journal, 2022, 60, 2103160.	3.1	8
114	The independent prognostic value of global epigenetic alterations: An analysis of single-cell ATAC-seq of circulating leukocytes from trauma patients followed by validation in whole blood leukocyte transcriptomes across three etiologies of critical illness. EBioMedicine, 2022, 76, 103860.	2.7	7
115	LONGL-Net: temporal correlation structure guided deep learning model to predict longitudinal age-related macular degeneration severity., 2022, 1, pgab003.		7
116	Geneâ€based association analysis for bivariate timeâ€toâ€event data through functional regression with copula models. Biometrics, 2020, 76, 619-629.	0.8	6
117	AMD Genetics: Methods and Analyses for Association, Progression, and Prediction. Advances in Experimental Medicine and Biology, 2021, 1256, 191-200.	0.8	6
118	LAIT: a local ancestry inference toolkit. BMC Genetics, 2017, 18, 83.	2.7	5
119	Differential gene expression in nasal airway epithelium from overweight or obese youth with asthma. Pediatric Allergy and Immunology, 2022, 33, e13776.	1.1	5
120	Meta-analysis of quantitative pleiotropic traits for next-generation sequencing with multivariate functional linear models. European Journal of Human Genetics, 2017, 25, 350-359.	1.4	4
121	A region-based method for causal mediation analysis of DNA methylation data. Epigenetics, 2022, 17, 286-296.	1.3	4
122	Leveraging Identity-by-Descent for Accurate Genotype Inference in Family Sequencing Data. PLoS Genetics, 2015, 11, e1005271.	1.5	3
123	A Pipeline for Classifying Relationships Using Dense SNP/SNV Data and Putative Pedigree Information. Genetic Epidemiology, 2016, 40, 161-171.	0.6	3
124	A semiparametric imputation approach for regression with censored covariate with application to an AMD progression study. Statistics in Medicine, 2018, 37, 3293-3308.	0.8	3
125	Clinical utility of ultrahigh fractional exhaled nitric oxide in predicting bronchial hyperresponsiveness in patients with suspected asthma. Postgraduate Medical Journal, 2019, 95, 541-546.	0.9	3
126	Epigenome-wide effects of vitamin D on asthma bronchial epithelial cells. Epigenetics, 2019, 14, 844-849.	1.3	3

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127	An integrative association method for omics data based on a modified Fisher's method with application to childhood asthma. PLoS Genetics, 2019, 15, e1008142.	1.5	3
128	Under-diagnosis of atopic dermatitis in Puerto Rican children. World Allergy Organization Journal, 2019, 12, 100003.	1.6	3
129	Gene-Based Association Testing of Dichotomous Traits With Generalized Functional Linear Mixed Models Using Extended Pedigrees: Applications to Age-Related Macular Degeneration. Journal of the American Statistical Association, 2021, 116, 531-545.	1.8	3
130	CSMD: a computational subtraction-based microbiome discovery pipeline for species-level characterization of clinical metagenomic samples. Bioinformatics, 2019, 36, 1577-1583.	1.8	2
131	Identification and inference for subgroups with differential treatment efficacy from randomized controlled trials with survival outcomes through multiple testing. Statistics in Medicine, 2021, 40, 6523-6540.	0.8	2
132	Rapid reconstitution of regulatory T-cell subsets is associated with reduced rates of acute graft-versus-host disease and absence of viremia after cord blood transplantation in children with reduced-intensity conditioning using alemtuzumab. Cytotherapy, 2020, 22, 149-157.	0.3	1
133	Inference of large modified Poisson-type graphical models: Application to RNA-seq data in childhood atopic asthma studies. Annals of Applied Statistics, 2021, 15, .	0.5	1
134	DNA Methylation and Atopic Diseases. Methods in Molecular Biology, 2022, 2432, 85-99.	0.4	1
135	CHIT: an allele-specific method for testing the association between molecular quantitative traits and phenotype–genotype interaction. Bioinformatics, 2021, 37, 4764-4770.	1.8	0
136	A Genome-wide Study of DNA Methylation in Nasal Epithelium and Atopy and Atopic Asthma in Children. SSRN Electronic Journal, 0, , .	0.4	0